

ABSTRACT

[0032] A mobile communication system includes at least one user terminal and a plurality of satellites which transmit and receive a plurality of communication signals to and from the user terminal. The communication signals transmitted to and received from the plurality of satellites by a gateway station. The gateway station in turn is in communication with a processing center to process said communication signals. The processing center uses polystatic triangulation to determine a position of the at least one user terminal and redirect a signal from at least one said plurality of satellites in response to the determined position of the at least one user terminal.